APPROVAL SHEET

CPU Coolers

SALES MODEL NO: SP988B1-V3-PWM

ENGINEER NO: SC988B1-V3-PWM

Article No. : SP-AP-SC-A407 **Issue : Mar 13, 2012** **Version : A/0**	**Audited by**

Checked by	**Drafted by**

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Approval Sheet Revisement Record

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Version	Revised Chapter	Description	Revised Date	Drafted by	Audited by	ECN No.
A/0	N/A	First Version	2012-3-13			N/A

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1. Main Components List

Item	Components	Part No.	Quantity	Material
1	Cooler	SC988B1-V3	1	AL+CU
2	Fan	SF12025N7H4-PWM	1	Plastic
3	Fan Clip	03CM039-1	2	Steel
4	Clip	03CM056	1	

2. Multi views and images

2.1 Cooler images

Picture 1 : Full view

Picture 2 : Top view

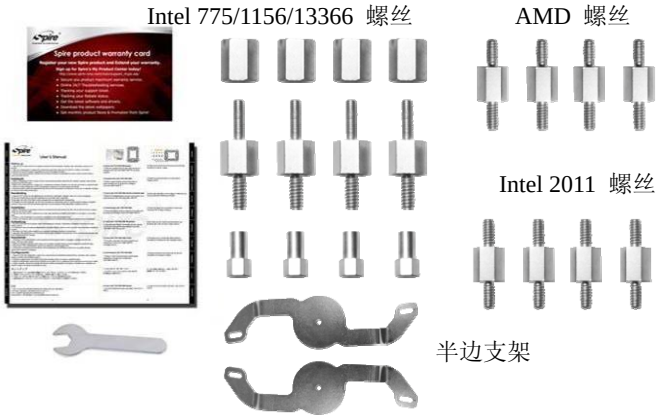
Picture 3 : Base view

Picture 4 : Right view

2.2 Components images

Picture 1 : Cooler

Picture 2: Fan



Picture 3: Accessories

Picture 4: Fan Label

Picture 5: backboard

Picture 6: 4PIN PWM(2510)

3. Features and Specifications:

Main features:

120mm BlackStar 7 blade PWM fan design

High Quality, Long MTBF Nano precision bearing

Anti-Vibe universal rubber fan mountings (crews)

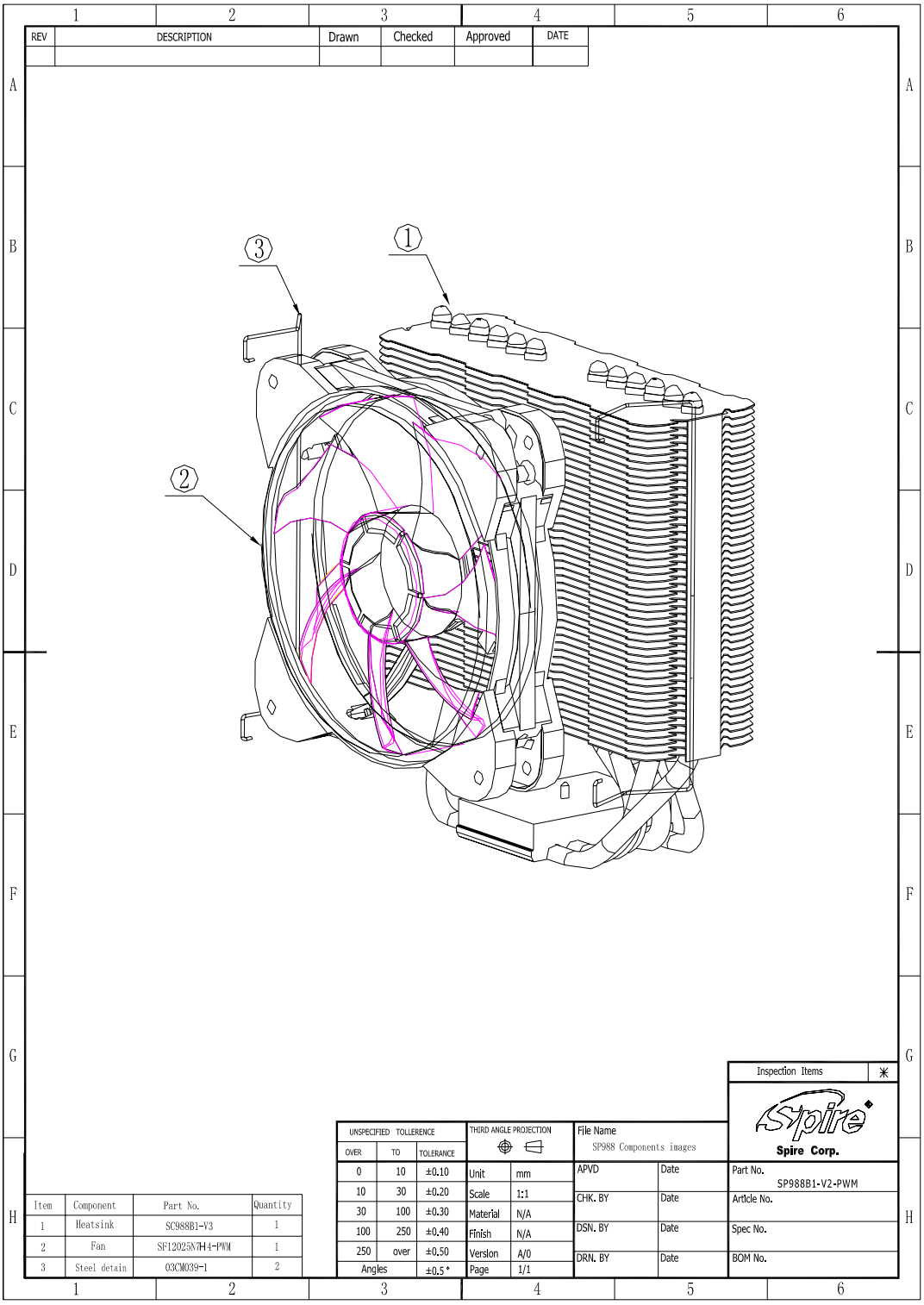
Supports AM2/AM3 and 775/1155/1156 & 1366& 2011 All catena

Specifications:

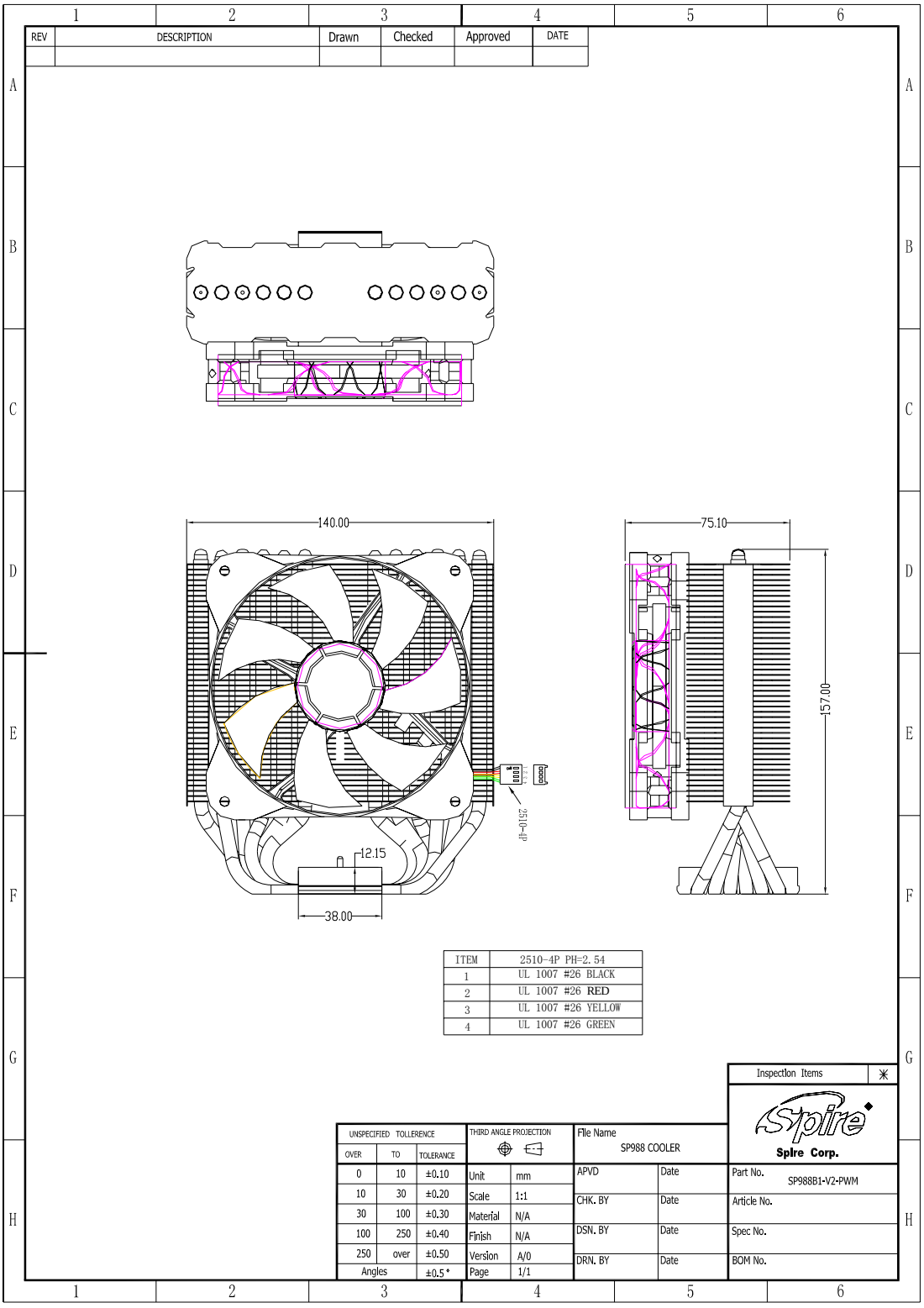
Dimensions	Heat sink : 140X47X160mm	
	12VDC Fan : 120X120X25mm	
Material	AL+CU	
heatpipe	Six(6) 6mm all copper U-shaped direct	
Bearing	Nano precision Bearing	
Rated speed	Cooler	600~1800 RPM +/-10%
	Single fan	600~1800 RPM +/-10%
Rated power	2.16W	
Noise level	10.0~22.0 dBA	
Air flow	74.63CFM Max.	
Current(MAX)	0.18A	
Connector	4 PIN PWM(2510)	
Application	AMD AM2/AM3	Intel LGA775 &LGA1156&LGA1366& 2011 All catena
Thermal resistance	0.097°C/W	
TDP(Watt)	130W	
Life hours	Nano precision Bearing 70,000 H	
weight	730g(Cooler only)	
Remark	Note:Width of case should be more than 190mm, otherwise, can not fit.	

4. Product Drawing

4.1 Assembly Drawing



4.2 Cooler


REV
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Drawn
Checked
Approved
DATE
140.00
75.10
157.00
12.15
38.00
2510-4P
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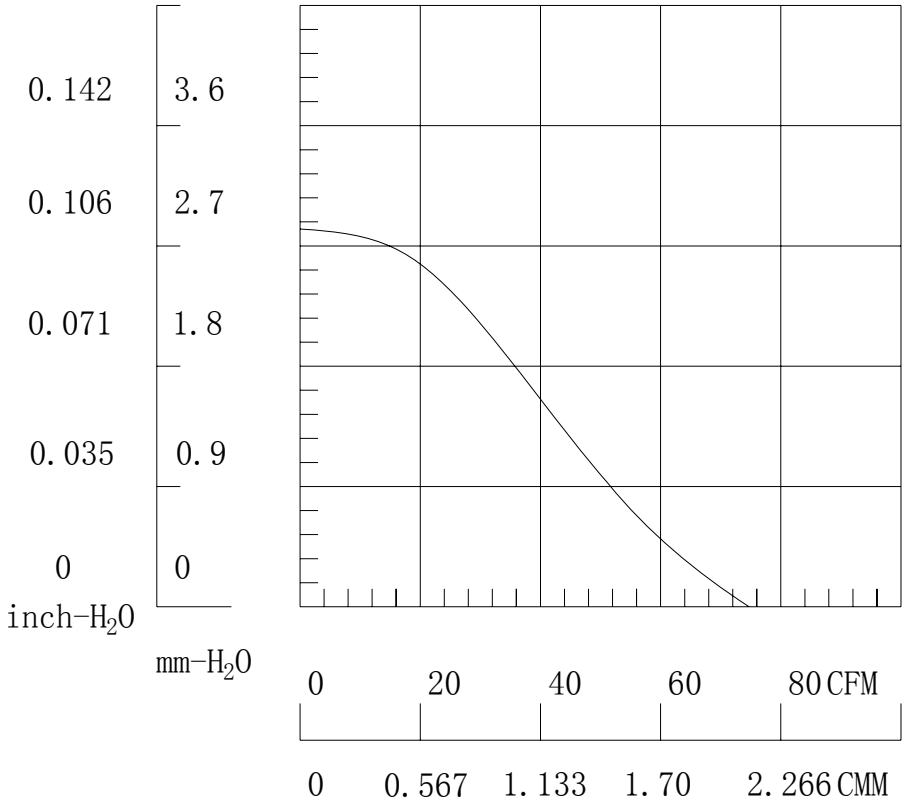
2510-4P PH=2.54
1 UL 1007 #26 BLACK
2 UL 1007 #26 RED
3 UL 1007 #26 YELLOW
4 UL 1007 #26 GREEN
Inspection Items
UNSPECIFIED TOLLERENCE
OVER TO TOLERANCE
0 10 ±0.10
10 30 ±0.20
30 100 ±0.30
100 250 ±0.40
250 over ±0.50
Angles ±0.5°
THIRD ANGLE PROJECTION
Unit mm
Scale 1:1
Material N/A
Finish N/A
Version A/0
Page 1/1
File Name
SP988 COOLER
APVD Date
CHK. BY Date
DSN. BY Date
DRN. BY Date
Spire Corp.
Part No. SP988B1-V2-PWM
Article No.
Spec No.
BOM No.

5. Fan Specification:

FAN MODEL: SF12025N7H4-PWM

1) Rated Voltage	: 12VDC
2) Operating Voltage Range	: 10.2 ~13.8VDC
3) Rated Speed(Single fan)	: 600~1800RPM ±10%
4) Static Pressure	: 2.86 mm-H_2O
5) Air Flow	: 74.63CFM MAX.
6) Rated Current(max)	: 0.18 A
7) Rated Power	: 2.16WATTS
8) Noise Level	: 10.0~22.0 dB(A)
9) Operating Temperature	: -10 to 70 ^{0} C
10) Storage Temperature	: -40 to 70 ^{0}C
11) Bearing System	: Nano precision Bearing
12) Connector	: 4 PIN PWM(2510)
13) Weight	: 110 g

6. P&Q Characteristic curves



7. Correlative Certification compliance

Item #	Certification type	Certification Number	Certification listing	Remark
1	EMC	BCT07LC-807E	www.bontek.com.cn	
2	LVD	BCT07LC-807S	www.bontek.com.cn	
3	FCC	ASZ08041007FK	www.aovt.com	
4	ROHS	GZ0803038947A/CHEM	www.rohs.cn.com	
5	TUV	R50131773	www.sz.chn.tuv.com	